Jet User Meeting

April 25th, 2012

Agenda

- HSMS Migration

- Enabling Quotas on /lfs1

- Migration to new Cron system (Chron)

- Q&A

HSMS Migration

- More than 20 projects are now writing data to the new HPSS through the mssTools
  - These projects comprise over 50% of the data we write to HSMS on a daily basis

- We will be pushing hard to get the rest writing to the remote system in the next few days
  - The challenge is account migration, not data migration

- We will also be working with non-Jet users to getting access for the new HSMS over the next week as well.

HSMS Migration

- When all data are being written to the remote system, then we will start to migrate existing data

- Current mssTools will find your data whether it is on the old system or new system.

- We hope to accomplish the migration in under 6 months
  - Cannot formally estimate this until we start transferring data and tune tape drive usage

Using the HSMS

- Do not use the legacy arch2 and arch3 mounts on the Jet FE's. Using these directly will cause data not to be written off to tape properly and may cause you to lose data. You must use the MssTools in order to write and read your data.

- The new HSMS is even more sensitive to small files. So please tar up your files and directories before copying them to the HSMS.

- For more information on how to use MssTools, please see: https://jetdocs.rdhpcs.noaa.gov/wiki/index.php/Using_the_HSMS

LFS1 Quotas

- We are ready to turn on quotas on lfs1

- Quotas will be enabled on May 9th

- All projects that are currently exceeding their quota can use the mssTools to write data to the new HSMS.

  - Delete (preferable) or Move your data off /lfs1 now!
  - New writes will be blocked after May 9th

- This has to happen before hurricane season, so we cannot delay implementation.

Squotas

- Use squotas to find out how much disk your project is consuming.

```
[ctierney@fe5 ~]$ squotas
Super quota report for user ctierney,  Wed Apr 25 14:02:11 2012
   - usage and quota listed in GB
   - RealUse is the current group disk usage as reported by the system
   - EstUse is the amount measured by du, may not be accurate if group ownership is incorrect

Dir                         Quota   RealUse   EstUse   Percentage    Last Estimated
/home/ctierney                  6         6                   88% Wed Apr 25 14:02:11 2012

/lfs0/projects/jetmgmt       5000      3371     3400      68.0%      Tue Apr 24 11:30:25 2012
            DDN                                    1       0.0%      Tue Apr 24 11:30:05 2012
             ctierney                            963      19.3%      Tue Apr 24 11:25:23 2012
            harrop                             2333      46.7%      Tue Apr 24 11:29:43 2012

/lfs1/projects/sepp          2000      1701     1706      85.3%      Wed Apr 25 11:13:45 2012
            2010BMSuite                         394      19.7%      Wed Apr 25 11:11:19 2012
            LBHWork                               4       0.2%      Wed Apr 25 11:13:33 2012
            gwv                                1127      56.4%      Wed Apr 25 11:13:26 2012
            mynewdir                              1       0.1%      Wed Apr 25 11:13:43 2012
            rbenson                             102       5.1%      Wed Apr 25 11:13:40 2012
            results                              70       3.5%      Wed Apr 25 11:13:42 2012
            wx23sm                                1       0.1%      Wed Apr 25 11:13:44 2012
```

New Cron System on Jet

- The new Cron system, Chron, has been enabled on Jet
  - This system has been in use on Zeus since that system went live
  - Provides unified crontab
  - Provides resiliency in the event of a hung server or excessive load

- Cron on cron1 and cron2 will be shut down on May 9th.

- Move and Test your crontabs!

- Any crontabs not migrated will be copied to $HOME/.crontab

Any Questions?